Comparisons of Job Characteristics

Focus Occupation: Computer and Information Systems Managers (11-3021)
Associated Occupation: Network Systems and Data Communications Analysts (15-1081)

Compare Knowledge
Compare Skills
Compare Abilities
Compare Detailed Work Activities
Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 84

Focus Occupation: Computer and Information Systems Managers (11-3021)
Associated Occupation: Network Systems and Data Communications Analysts (15-1081)

Average Associated Focus **Associated Occupation's** Rating, All Occupation's Occupation's **Evaluation of Focus Occupation Key Knowledge Elements** Occupations Rating Rating Computers and Electronics 20.0 8.4 21.2 Current knowledge level may be sufficient Extensive education and/or training may 10.9 3.9 17.4 Telecommunications be required **Customer and Personal** 11.3 13.4 Current knowledge level is likely sufficient 15.7 Service

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 51

Focus Occupation: Computer and Information Systems Managers (11-3021)
Associated Occupation: Network Systems and Data Communications Analysts (15-1081)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Systems Analysis	6.5	12.8	10.8	<	A higher skill level may be required
Operations Analysis	5.0	11.5	9.6	<	A higher skill level may be required
Systems Evaluation	6.4	11.5	12.2	0	Current skill level may be sufficient
Troubleshooting	4.5	10.3	7.5	<<	Extensive development of skills in this area may be required
Quality Control Analysis	5.9	10.0	7.2	<<	Extensive development of skills in this area may be required
Programming	2.2	9.6	6.9	<<	Extensive development of skills in this area may be required
Technology Design	2.6	9.1	5.9	<<	Extensive development of skills in this area may be required
Equipment Selection	3.3	8.5	6.6	<	A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 95

Focus Occupation: Computer and Information Systems Managers (11-3021)
Associated Occupation: Network Systems and Data Communications Analysts (15-1081)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Deductive Reasoning	10.6	12.3	13.2	0	Current ability level may be sufficient
Information Ordering	9.9	11.6	12.3	0	Current ability level may be sufficient
Fluency of Ideas	7.6	9.7	10.1	0	Current ability level may be sufficient
Selective Attention	8.7	9.7	9.5	0	Current ability level may be sufficient
Originality	7.6	9.4	10.1	0	Current ability level may be sufficient
Perceptual Speed	7.4	8.8	7.2	<	Some improvement in abilities may be required
Speed of Closure	5.9	8.5	6.9	<	Some improvement in abilities may be required
Memorization	5.6	7.3	7.3	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 83

Focus Occupation: Computer and Information Systems Managers (11-3021)
Associated Occupation: Network Systems and Data Communications Analysts (15-1081)

Work Activities	Exclusivity of Activity
Consult with customers concerning needs	69
Evaluate computer system user requests or requirements	81
Follow data security procedures	77
Follow data storage procedures	75
Recommend software or hardware purchases	85
Test computer programs or systems	78
Use computer application flow charts	84
Use project management techniques	47
Work as a team member	36

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 81

Focus Occupation: Computer and Information Systems Managers (11-3021)
Associated Occupation: Network Systems and Data Communications Analysts (15-1081)

Tools and Technologies	Exclusivity
Business function specific software	1
Computers	1
Content authoring and editing software	1
Data management and query software	1
Development software	4
Electronic and communication measuring and testing instruments	14
Finance accounting and enterprise resource planning ERP software	2
Industry specific software	1
Information exchange software	1
Media storage devices	21
Network applications software	1
Network management software	37
Network service equipment	47
Networking software	21
Operating environment software	12
Security and protection software	30
Utility and device driver software	17

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.